OIPE

RAW SEQUENCE LISTING DATE: 07/24/2001.
PATENT APPLICATION: US/09/900,766 TIME: 10:47:32

Input Set : A:\Seq.txt

Output Set: N:\CRF3\07242001\1900766.raw

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3 <110> APPLICANT: FORSBERG, GORAN
              ERLANDSSON, EVA
      5
              ANTONSSON, PER
              WALSE, BJORN
      8 <120> TITLE OF INVENTION: A NOVEL ENGINEERED SUPERANTIGEN FOR HUMAN THERAPY
     10 <130> FILE REFERENCE: P02188US0;10104199
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/900,766
C--> 13 <141> CURRENT FILING DATE: 2001-07-06
     15 <160> NUMBER OF SEQ ID NOS: 7
     17 <170> SOFTWARE: PatentIn version 3.0
     19 <210> SEQ ID NO: 1
     20 <211> LENGTH: 672
     21 <212> TYPE: PRT
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     26 <222> LOCATION: (1)..(672)
     27 <223> OTHER INFORMATION: Conjugate protein
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    41 Gly Arg Ile Asn Pro Asn Asn Gly Val Thr Leu Tyr Asn Gln Lys Phe
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    44 Lys Asp Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Thr Thr Ala Tyr
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    56 Tyr Pro Leu Ala Pro Gly Ser Ala Ala Gln Thr Asn Ser Met Val Thr
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                                135
    59 Leu Gly Cys Leu Val Lys Gly Tyr Phe Pro Glu Pro Val Thr Val Thr
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                                                155
    62 Trp Asn Ser Gly Ser Leu Ser Ser Gly Val His Thr Phe Pro Ala Val
                                            170
                        165
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                    180
    68 Ser Thr Trp Pro Ser Glu Thr Val Thr Cys Asn Val Ala His Pro Ala
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                195
    71 Ser Ser Thr Lys Val Asp Lys Lys Ile Val Pro Arg Asp Ser Gly Gly
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80	Tyr	Asn	Ser	Lys 260		Ile	Thr	Ser	Ser 265		Lys	Ser	Ala	Asp 270		Phe
81 83 84	Leu	Thr	Asn 275		Leu	Leu	Phe	Lys 280	Gly	Phe	Phe	Thr	Gly 285		Pro	Trp
_	Tyr	Asn 290		Leu	Leu	Val	Asp 295		Gly	Ser	Thr	Ala 300	_	Thr	Ser	Glu
89	Tyr 305		Gly	Ser	Ser	Val 310		Leu	Tyr	Gly	Ala 315		Tyr	Gly	Tyr	Gln 320
		Ala	Gly	Gly	Thr		Asn	Lys	Thr	Ala 330		Met	Tyr	Gly	Gly 335	
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		Thr 370	Ser	Lys	Lys	s Glu	val 375	LThi	val	L Glr	ı Glu	1 Leu 380	Asp	Leu	ı Glr	n Ala
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	385					390					395					400
107 108	_	/ Gly	Lys	val	. Glr 405		Gl3	, Lei	ı Ile	• Val 410		e His	Ser	Ser	Glu 415	ı Gly
		o mha	• V-1	Cor				. Dha) Acr			v Gla	. Clr	ጥ፣፣		Asp
111		. 1111	. val	420		. ASL	, тес	I PIIE	425		i Gii	т Сту	GII	430		, KSP
113 114		Leu	Leu 435		, Ile	Туг	Arg	Asp 44(Thr	Thr	: Ile	Ser 445		Thi	Ser
116 117		ser 450		e Ser	Leu	туг	Leu 455		Thi	Thi	Ser	11e		. Met	: Thr	Gln
119		Pro		Ser	Leu	Leu 470	ı Val		Ala	Gly	7 Asp 475		val	Thr	: Ile	Thr 480
			. Ala	. Ser	Glr			l Sei	Asr	n Asp			Trp	туг	Glr	Gln
123	}	_			485	5				490)				495	5
125 126	_	Pro	Gly	7 Glr 500		Pro	Lys	s Lei	1 Let 505		e Ser	Туг	Thr	Ser 510		Arg
		: Ala	Gly			Asp	Arc	ı Phe			, Ser	Gly	Tyr			Asp
129			515			•	-	520		•		-	525			-
				ı Thr	Ile	e Ser			L Glr	ı Ala	Glu			Ala	val	Tyr
132		530			. 7.00	Mers	535		n Droc	D TO TO	mba	540		, C1s	, (1)	, mbr
	545		GII.	ı GII	ı ASL	550		1 261	. PIC	PIC	555		: СТУ	Gly	GIZ	7 Thr 560
			ı Glu	ı Ile	Lys			a Asp	Ala	ı Ala			. Val	. Ser	· Ile	Phe
138					565	5			•	570)				575	5
		Pro	Ser			Gln	Let	ı Thi			/ Gly	/ Ala	Ser			Cys
141		ים. ד	ı Acr	580 Asr		ነ ጥህን	· Pro	n T.ve	585 3 Asr		λer	val	Ţ.v c	590 Tre		Ile
144		, ner	595		. E.116	- тут	FIC	600	_	, 116	, ası	. vul	605		ייי	
		Gly	ser ser	Glu	Arg	Gln	Asr	Gly	y Val	Leu	ı Asr	Ser	Trp	Thr	Asp	Gln

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PATENT APPLICATION: US/09/900,766

DATE: 07/24/2001
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149	Asp	Ser	Lys	Asp	Ser	Thr	Tyr	Ser	Met	Ser	Ser	Thr	Leu	Thr	Leu	Thr
150	625					630					635					640
152	Lys	Asp	Glu	Tyr	Glu	Arg	His	Asn	Ser	Tyr	Thr	Cys	Glu	Ala	Thr	His
153					645					650					655	
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165	<22	2> L(CAT:	ION:	(1)	(23	33)									
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174	Glu	Leu	Gln	Gly	Thr	Ala	Leu	Gly	Asn	Leu	Lys	Gln	Ile	Tyr	Tyr	Tyr
175				20					25					30		
177	Asn	Ser	Lys	Ala	Ile	Thr	Ser	Ser	Glu	Lys	Ser	Ala	Asp	Gln	Phe	Leu
178			35					40					45			
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181		50					55					60				
183	Asn	Asp	Leu	Leu	Val	Asp	Leu	Gly	Ser	Thr	Ala	Ala	Thr	Ser	Glu	Tyr
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186	Glu	Gly	Ser	Ser		Asp	Leu	Tyr	Gly	Ala	Tyr	\mathtt{Tyr}	Gly	Tyr	Gln	Cys
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190				100					105					110		
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193			115					120					125			
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		Ser	Lys	Lys	Glu		Thr	Val	Gln	Glu		Asp	Leu	Gln	Ala	
	145	_	_	•		150			_		155		_	_		160
	His	Tyr	Leu	His		Lys	Phe	GTÄ	Leu		Asn	Ser	Asp	Ser		GIY
202	a 1	_			165	~ 7				170	•	~	•		175	
					_									Glu	GIY	ser
205												a 1.		190		ml
	Tnr	vaı		Tyr	Asp	Leu	Pne	_	Ата	GIn	GTĀ	GIN		Pro	Asp	Tnr
208	T 0	T	195	т1 "	M	3	3	200	mh	mh	T1-		205	mh		T
			Arg	тте	ıyr	arg		ASN	Inr	Inr	тте		ser	Thr	ser	ьeu
211		210	Co~	T 0.13	П	T 0.11	215	mh.~	mb~			220				
	225	Ile	Ser.	ьeu	тАт	230	TAT	THE	TIII							
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		2> TY			, ,											
210	\41Z	11	. E 11 .	1 1/1												

RAW SEQUENCE LISTING DATE: 07/24/2001 PATENT APPLICATION: US/09/900,766 TIME: 10:47:32

Input Set : A:\Seq.txt

Output Set: N:\CRF3\07242001\I900766.raw

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290 Gln His Thr Ile Leu Phe Lys Gly Phe Phe Thr Asp His Ser Trp Tyr
291
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DATE: 07/24/2001 TIME: 10:47:32 RAW SEQUENCE LISTING PATENT APPLICATION: US/09/900,766

Input Set : A:\Seq.txt
Output Set: N:\CRF3\07242001\I900766.raw

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299 300	Ala	Gly	Gly	Thr 100	Pro	Asn	Lys	Thr	Ala 105	Cys	Met	Tyr	Gly	Gly 110	Val	Thr
302 303	Leu	His	Asp 115	Asn	Asn	Arg	Leu	Thr 120	Glu	Glu	Lys	Lys	Val 125	Pro	Ile	Asn
305 306	Leu	Trp 130	Leu	Asp	Gly	Lys	Gln 135	Asn	Thr	Val	Pro	Leu 140	Glu	Thr	Val	Lys
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315				180				Ile	185					190		
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329 331 333 334	<213 <400 Ala 1	3> 01 0> S1 Leu	RGANI EQUEI His	ISM: NCE: Lys	5 Lys 5	Ser	Glu	Leu	Ser	10					15	Met
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329 331 333 334 336 337 339 340 342 343 345 346 348 349 351 352 354 355	<21: <400 Ala 1 Lys Thr Leu Lys 65 Ala Ala Glu	3> OF Control of the	RGANIEQUENT His Ser Asp 35 Ile Val Thr Lys Ser 115	ISM: NCE: Lys Tyr 20 Gln Asn Asp Tyr Lys 100 Leu	5 Lys 5 Ala Phe Phe Val Gly 85 Ile Asp	Ser Asp Leu Asn Tyr 70 Gly Pro Lys	Glu Ala Glu Ser 55 Ala Val Ile Val	Leu Asn Asn 40 Ala Ile Thr Asn Gln 120	Ser Pro 25 Thr Glu Arg Pro Leu 105 Thr	10 Ile Leu Met Tyr His 90 Trp Asp	Ile Leu Ala Ala 75 Ala Ile Lys	Gly Tyr Gln 60 Ala Gly Ile Lys	Ala Lys 45 His Ala Asn Gly Asn 125	Asn 30 Ala Phe Cys Ala Val 110 Val	15 Lys Phe Lys Arg Leu 95 Gln	Ser Phe Ser Thr 80 Lys Val
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/900,766

DATE: 07/24/2001 TIME: 10:47:33

Input Set : A:\Seq.txt

Output Set: N:\CRF3\07242001\1900766.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date